

LITE-ON TECHNOLOGY CORPORATION
A World-Class Excellent Company

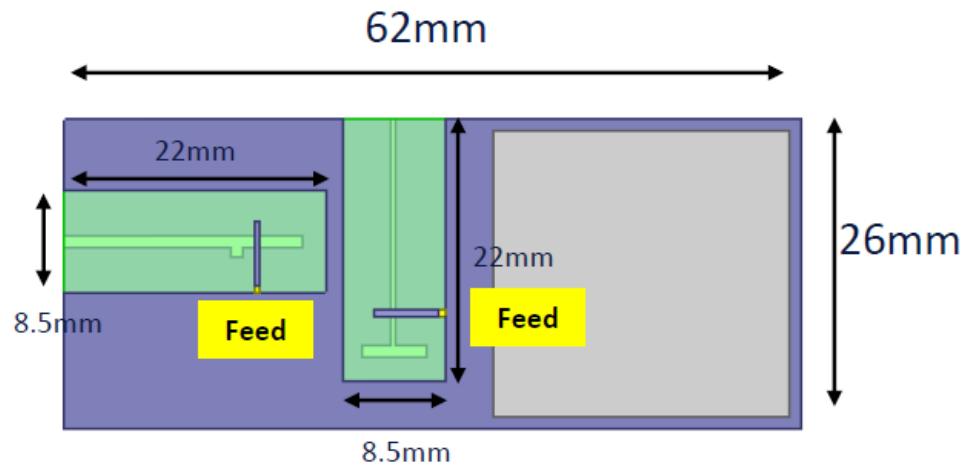
成為世界級卓越的公司

WCBN3605L Antenna Report

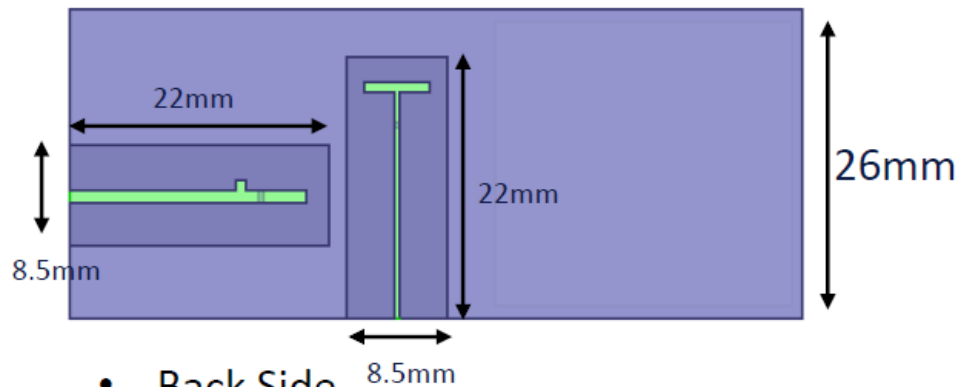
SAS George 2020 03.18

光電節能 智慧科技 最佳夥伴 Best Partner in Opto-Electronic, Eco-Friendly and Intelligent Technologies

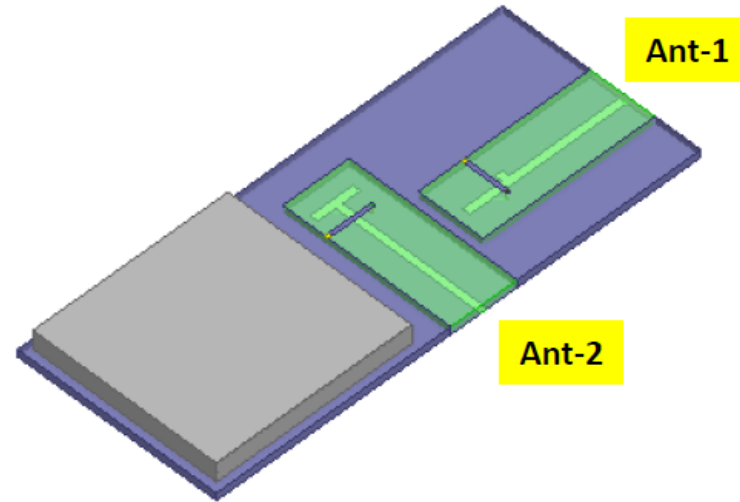
Placement - Single Band Condition



• Front Side



• Back Side



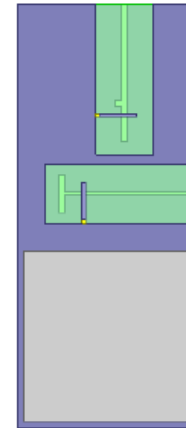
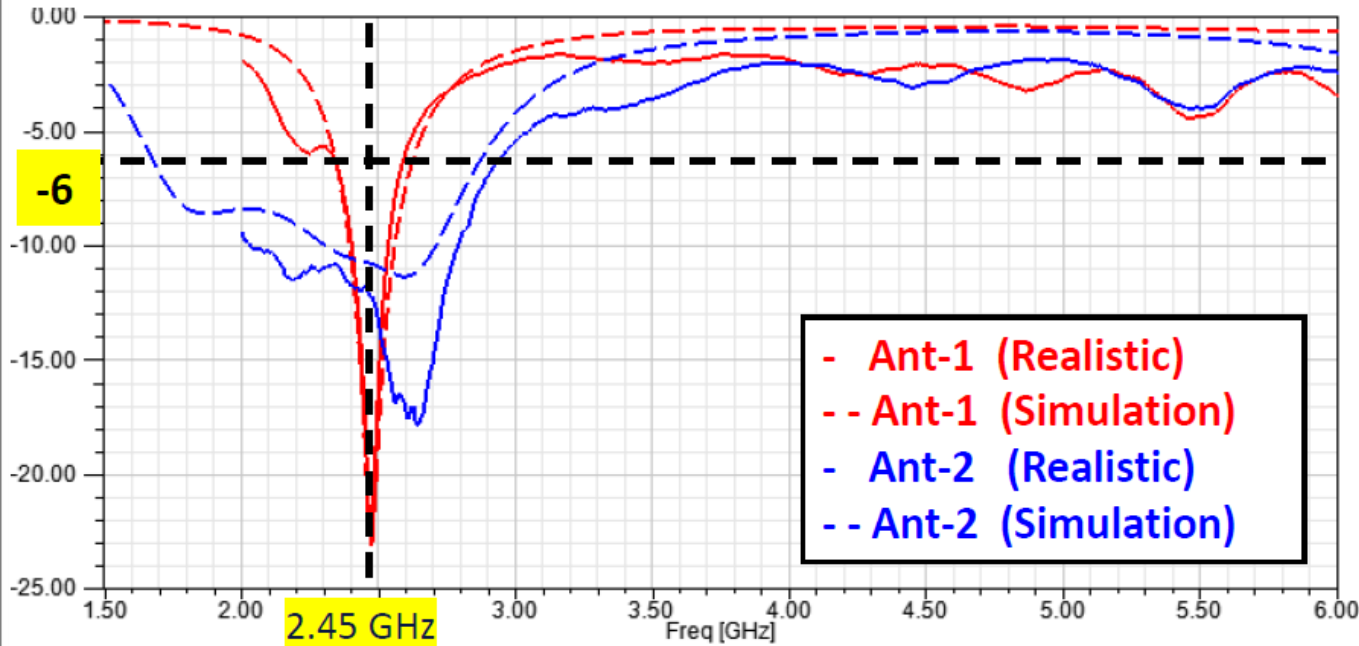
• Model overview

Condition:

- Single band 2 GHz
- Total Dimension: 62mm*26mm*1mm

Single Band - Return Loss

- Comparison of original antenna pattern.

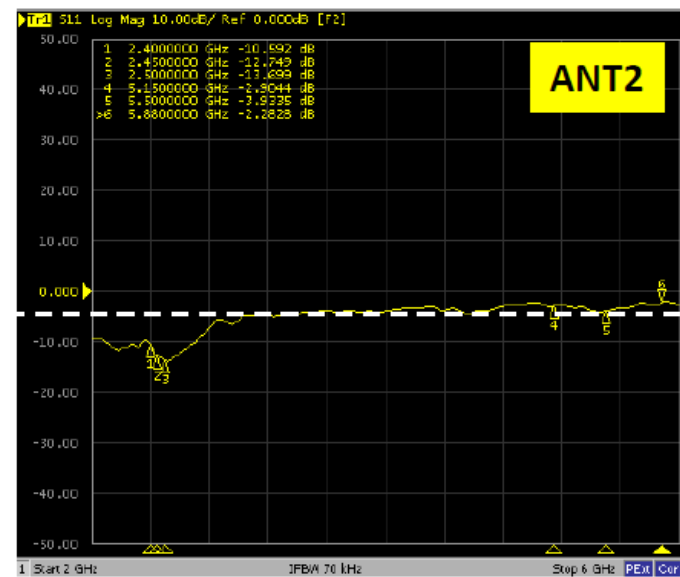
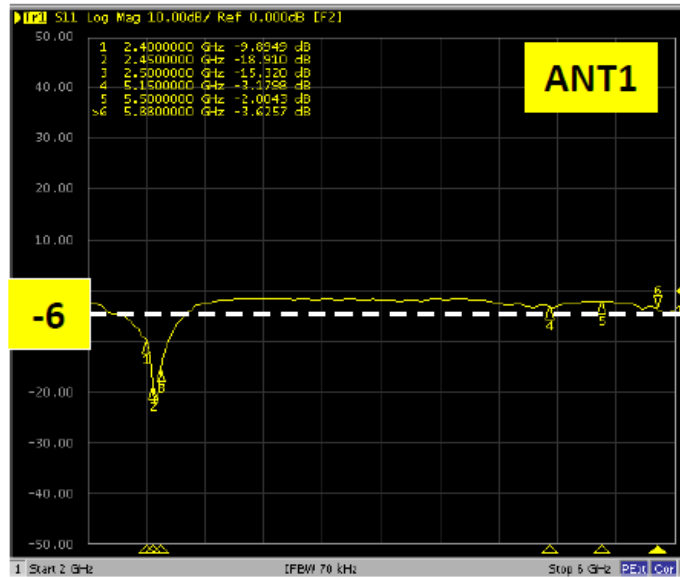


- Realistic & Simulation

Frequency (GHz)	Ant-1 Realistic	Ant-2 Realistic	Ant-1 Simulation	Ant-2 Simulation
2.4 GHz	-9.9 dB	-10.5 dB	-10.6 dB	-11.7 dB
2.45 GHz	-18.9 dB	-11.7 dB	-18.8 dB	-10.7 dB
2.5 GHz	-15.6 dB	-13.4 dB	-17.9 dB	-10.9 dB

Manufacture : LITEON
 Address :
 4F., No. 392, Ruiguang
 Rd., Neihu Dist., Taipei City 114753,
 Taiwan (R.O.C.)

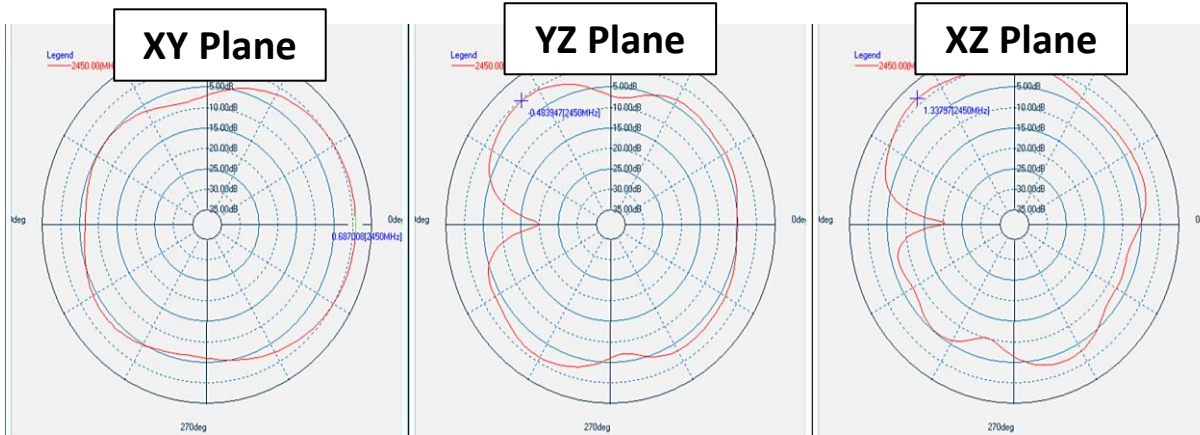
Efficiency and Gain Table



Frequency (MHz)	ANT1		ANT2	
	Efficiency(%)	Peak Gain (dBi)	Efficiency(%)	Peak Gain (dBi)
2400	43%	0.77 dBi	52%	1.7 dBi
2450	49.7%	2.06 dBi	58.3%	2.1 dBi
2500	54%	-3.7 dBi	59.1%	2.1 dBi

Single Band - Radiation Pattern

ANT1



ANT2

